

**Amendments to the Abstract**

Please **amend** the Abstract to read.

-- The present invention relates to a full-digital implementation of a differential phase detector and to an interpolator for such a differential phase detector. According to the invention a differential phase detector for generating a tracking error signal from the digitized signals (~~A, B, C, D~~) of four photodetectors, having a multiplexer for time multiplexing the digitized signals (~~A, B, C, D~~), includes a demultiplexer / interpolator for synchronizing the samples from the time multiplexed digitized signals (~~A, B, C, D~~). The demultiplexer / interpolator favorably receives a four signal time multiplex and generates four channels at half the speed of the time multiplex.

~~Fig. 9~~ --